

Name: _____

Date: _____

Student Exploration: Building DNA

Before beginning the gizmo, watch the video at this link: [How to Make a Human Being](#)

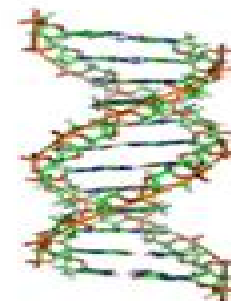
Now begin the Gizmo below. Turn it in to your substitute when you are finished.

Recall from our unit on Biochemistry that DNA is one of the class of macromolecules we call **nucleic acids**. Nucleic acids are long chains of nucleotides linked together by covalent bonds. **DNA** is an incredible molecule that forms the basis of life on Earth. DNA molecules contain instructions for building every living organism on Earth, from the tiniest bacterium to a massive blue whale. DNA also can make copies of itself. This allows living things to grow and reproduce.

1. Look at the DNA molecule shown at right. What does it look like?

This shape is called a **double helix**.

2. Based on this picture, how do you think a DNA molecule makes a copy of itself? (Hint: Look at the bottom two "rungs" of the ladder.)



Gizmo Warm-up

The *Building DNA* Gizmo allows you to construct a DNA molecule and go through the process of DNA replication.

1. Look on the right side of the Gizmo. What is the name for the components make up a DNA molecule?

A **nucleotide** consists of three parts: a phosphate group (blue circle), a sugar called deoxyribose (tan pentagon), and a **nitrogenous base** (shown in color).



Gizmo Building Dna Exploration Teachers Guide

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Table of Contents Gizmo Building Dna Exploration Teqachers Guide

1. Understanding the eBook Gizmo Building Dna Exploration Teqachers Guide
 - The Rise of Digital Reading Gizmo Building Dna Exploration Teqachers Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Building Dna Exploration Teqachers Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gizmo Building Dna Exploration Teqachers Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Building Dna Exploration Teqachers Guide
 - Personalized Recommendations
 - Gizmo Building Dna Exploration Teqachers Guide User Reviews and Ratings

- Gizmo Building Dna Exploration Teqachers Guide and Bestseller Lists
- 5. Accessing Gizmo Building Dna Exploration Teqachers Guide Free and Paid eBooks
 - Gizmo Building Dna Exploration Teqachers Guide Public Domain eBooks
 - Gizmo Building Dna Exploration Teqachers Guide eBook Subscription Services
 - Gizmo Building Dna Exploration Teqachers Guide Budget-Friendly Options
- 6. Navigating Gizmo Building Dna Exploration Teqachers Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Gizmo Building Dna Exploration Teqachers Guide Compatibility with Devices
 - Gizmo Building Dna Exploration Teqachers Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmo Building Dna Exploration Teqachers Guide
 - Highlighting and Note-Taking Gizmo Building Dna Exploration Teqachers Guide
 - Interactive Elements Gizmo Building Dna Exploration Teqachers Guide
- 8. Staying Engaged with Gizmo Building Dna Exploration Teqachers Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gizmo Building Dna Exploration Teqachers Guide
- 9. Balancing eBooks and Physical Books Gizmo Building Dna Exploration Teqachers Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmo Building Dna Exploration Teqachers Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gizmo Building Dna Exploration Teqachers Guide
 - Setting Reading Goals Gizmo Building Dna Exploration Teqachers Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gizmo Building Dna Exploration Teqachers Guide
 - Fact-Checking eBook Content of Gizmo Building Dna Exploration Teqachers Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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